

Docket No.: PBLI-P05-005

This is a continuation of U.S. Serial No.: 08/489,071 filed
6/9/95Title: Modified Interferons
Atty: William G. Gosz
Reg. No. 27,787ATGGCCTTG
MetAlaLeu
-23

9

10	TCCTTTCTTACTGATGGCGTGTGGTACTCAGCTACAAATCCATCTGCTCTGGGC SerPheSerLeuLeuMetValValLeuValLeuSerTyrLysSerIleCysSerLeuGly -20	-10	-1	69
70	TGTGATCTGCCTCAGACCCACAGCCTGCGTAATAGGAGGGCCTGATACTCCTGGCACAA CysAspLeuProGlnThrHisSerLeuArgAsnArgArgAlaLeuIleLeuLeuAlaGln 1 10 20			129
130	ATGGGAAGAATCTCTCCTTCTCCTGCTGAAGGACAGACATGAATTCAAGATTCCCAGAG MetGlyArgIleSerProPheSerCysLeuLysAspArgHisGluPheArgPheProGlu 30 40			189
190	GAGGAGTTGATGCCACCAGTTCCAGAACAGACTCAAGCCATCTGTCCTCCATGAGATG GluGluPheAspGlyHisGlnPheGlnLysThrGlnAlaIleSerValLeuHisGluMet 50 60			249
250	ATCCAGCAGACCTTCAATCTCTCAGCACAGAGGACTCATCTGCTGCTGGAACAGAGC IleGlnGlnThrPheAsnLeuPheSerThrGluAspSerSerAlaAlaTrpGluGlnSer 70 80			309
310	CTCCTAGAAAATTTCCACTGAACTT <u>ACCAGCAACTGAATGACCTGGAAGC</u> ATGTGTG LeuLeuGluLysPheSerThrGluLeuTyrGlnGlnLeuAsnAspLeuGluAlaCysVal 90 100			369
370	ATACAGGAGGTTGGGTGGAAGAGACTCCCCTGATGAATGAGGACTCCATCCTGGCTGTG IleGlnGluValGlyValGluGluThrProLeuMetAsnGluAspSerIleLeuAlaVal 110 120			429
430	AGGAAATACTTCAAAGAACACTCTTATCTAACAGAGAACATACAGCCCTTGCC ArgLysTyrPheGlnArgIleThrLeuTyrLeuThrGluLysTyrSerProCysAla 130 140			489
490	TGGGAGGTTGTCAGAGCAGAAATCATGAGATCCCTCTCGTTCAACAAACTTGCAAAAA TrpGluValValArgAlaGluIleMetArgSerLeuSerPheSerThrAsnLeuGlnLys 150 160			549
550	AGATTAAGGAGGAAGGATTGA 570 ArgLeuArgArgLysAspEnd 166			

Fig. 1. Nucleotide and Amino Acid Sequence of Hu-IFN- α 001. The location of the *Alw*NI site is underlined. The signal peptide is shown as the 23 amino acids labeled -1 to -23.

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1	MALSFSLLMVVVLVLSYKSICSLGCDLPQTHSLRNRRALILLAQMGRISPF	50
1	MARSFSLLMVVLVLSYKSICSLGCDLPQTHSLRNRRALILLAQMGRISPF	50
51	SCLKDRHEFRFPEEEFDGHQFQKTQAI SVLHEMIQQTFNLFSTEDSSAAW	100
51	SCLKDRHEFRFPEEEFDGHQFQKTQAI SVLHEMIQQTFNLFSTEDSSAAW	100
101	EQSLLEKFSTELYQQLNDEACVIQEVGVEETPLMNEDSILAVRKYFQRI	150
101	EQSLLEKFSTELYQQLNDEACVIQEVGVEETPLMNEDFILAVRKYFQRI	150
151	TLYLTEKKYSPCAWEVVRAEIMRSLSFSTNLQKRLRRKD	189
151	TLYLMEKKYSPCAWEVVRAEIMRSFSFSTNLKKGLRRKD	189

Fig. 2. Comparison of the Protein Sequence of Hu-IFN- α 001 with that of Hu-IFN- α J. The signal peptide represents the first 23 amino acids at the amino terminus.

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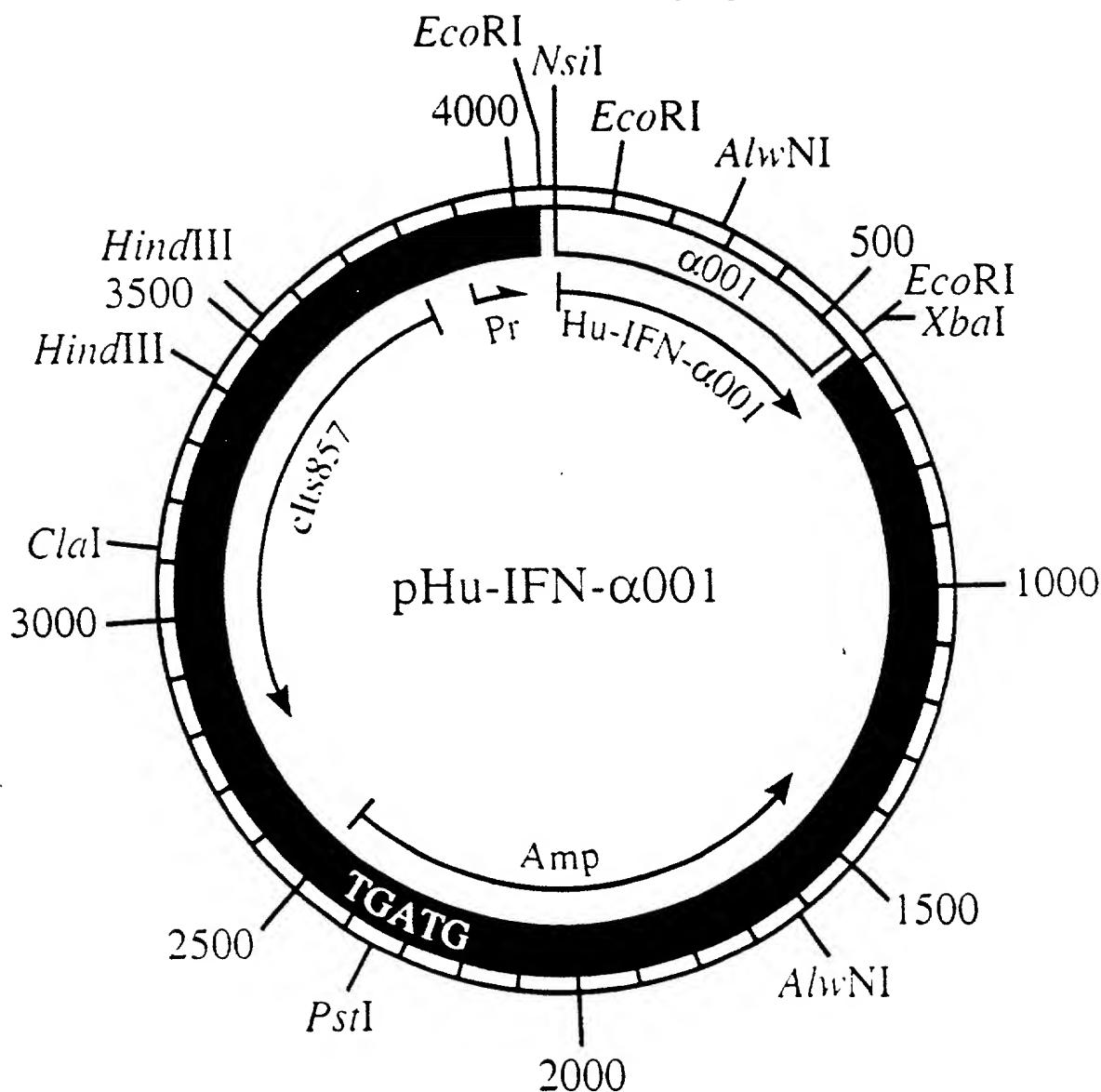


FIG. 3. Expression vector for Hu-IFN- α 001. The structure of the plasmid pHu-IFN- α 001 is shown. The *Nsi*I site represents nucleotide position =1. The *P_R* promoter drives expression of Hu-IFN- α 001.

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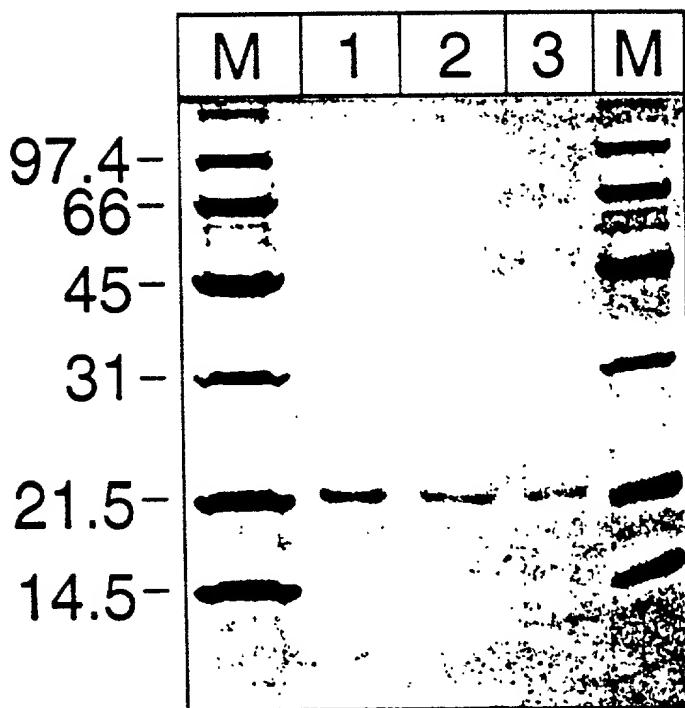


Fig. 4. SDS-Polyacrylamide Gel Electrophoresis of the Purified Hu-IFN- α 001. Hu-IFN- α 001 was placed in lanes 1, 2 and 3 in amounts of 3 μ g, 1.5 μ g and 0.75 μ g, respectively. The columns labeled M represent the molecular weight markers with the values in kilodaltons given to the left of each respective molecular weight marker.